para-test.com
paragliding by air turquoise

Air Turquoise SA
Rte du Pré-au-Comte 8 | CH-1844 Villeneuve
tel. +41 21 965 65 65 | mobile +41 79 202 52 30
info@para-test.com

Flight and Load test report - LTF lt. 2. DV LuftGerPV §1, Nr. 7 c

Manufacturer X-dream Fly
Address Gerald Roschmann
Unterbach 9
6653 Bach / Tirol
Austria

Certification number: RG 065.2012
Type/model: X-One 120
Total weight in flight: 120 kg

Description of tests	*place:*	*date:*	*result:*
1. Deployment system strength test			
A load of 700 N between each components	Villeneuve	02.11.2010	OK
2. Speed of opening test - ref. A (2 times)			
Time from the instant of free drop until a load of 200 N is sustained			
Opening time	Villeneuve	14.05.2012	< 5 seconds
Opening time	Villeneuve	02.08.2012	< 5 seconds
3. Descent rate and stability test - ref. A and B (2 times)			
The paraglider is released as the parachute begins to open, minimum 100 m descent.			
Stability 1	Villeneuve	14.05.2012	Stable
Sink rate 1	Villeneuve	14.05.2012	5.98 m/sec
Stability 2	Villeneuve	02.08.2012	Stable
Sink rate 2	Villeneuve	02.08.2012	6.09 m/sec
4. Strength test 40 m/s opening shock (2 times)			
The drop test device is accelerated to a straight line velocity of 40 m/s. Speed of opening is less than 5 seconds and shock not exceeded 15g			
Test 1	Illarsaz	03.02.2012	OK
Test 2	Illarsaz	03.02.2012	OK
Test 3	Illarsaz	02.04.2012	OK
5. Interaction and stability test (piloted) - ref. C			
a the emergency parachute is deployed from a paraglider in normal straight flight.			not available
b the pilot shall take no action while the behaviour of the parachute and paraglider are observed 200 metres.			not available
c the pilot take action while the behaviour of the parachute and paraglider are observed 200 metres.			not available

The model described is in conformity with all points of the standard EN 12491:2001

For Air Turquoise SA

Alain Zoller

Air Turquoise SA
Route du Pré-au-Comte 8
Case postale 10
CH- 1844 Villeneuve
email: info@para-test.com
homepage: www.para-test.com

ISO 9001 BUREAU VERITAS Certification

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Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
Villeneuve 14.5.2012	**966**	0 km/h	17°	68.7%
Corrected mass:	**113.62**			
Villeneuve 02.08.2012	963	7 km/h	23°	68.0%
Corrected mass:	**110.97**			

Reference

A. At horizontal airspeed 8 m/s and vertical speed 1.5 m/s

B. Formula to be used for correcting the test mass ofr differences from ICAO standard atmosphere

$$m_{corr} := m_{dec} \cdot \frac{p \cdot T_0}{p_0 \cdot T}$$

Ground level atmospheric pressure at the test location: (p)
ICAO standard atmospheric pressure at MSL: (po)
Ground level température at the test location: (T)
ICAO standard temperature at MSL: (To)
Total weight in flight: (mdec)
Corrected mass: (mcorr)

C. Only parachute with controls for steering and landing flare

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Switzerland
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fax : +41 219 65 65 68
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homepage: www.para-test.com

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